

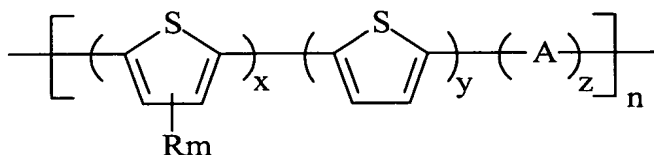
## **CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **LISTING OF CLAIMS:**

1-7. (Previously Cancelled).

8. (Previously Presented) An electronic device containing a regioregular polythiophene

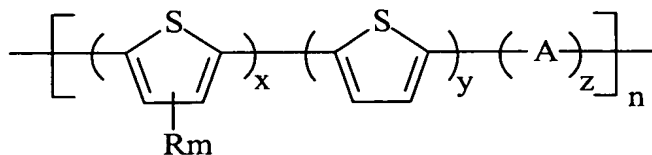


(I)

wherein R represents a side chain, m represents the number of R substituents; A is a divalent linkage; x, y and z represent, respectively, the number of R<sub>m</sub> substituted thienylenes, unsubstituted thienylenes, and divalent linkages A in the monomer segment subject to z being 0 or 1, and n represents the number of repeating monomer segments in the polymer or the degree of polymerization; and wherein the side chain R is a siloxyalkyl of trimethylsiloxyalkyl, or triethylsiloxyalkyl, and wherein the alkyl portion optionally contains from about 4 to about 10 carbon atoms, and which alkyl is butyl, pentyl, hexyl, heptyl, or octyl.

9-35. (Previously Cancelled).

36. (Currently Amended) An electronic device containing a regioregular polythiophene



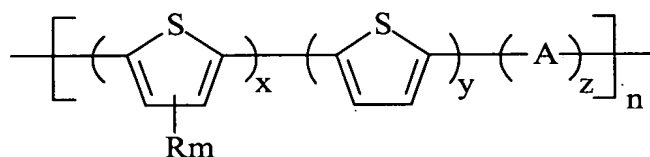
(I)

wherein R is[[,]] a siloxyalkyl of trimethylsiloxyalkyl or triethylsiloxyalkyl, m represents the number of R substituents; A is a divalent linkage; x, y and z represent, respectively, the number of R<sub>m</sub> substituted thienylenes, unsubstituted thienylenes, and divalent linkages A in the monomer segment subject to z being 0 or 1, and n represents the number of repeating monomer segments in the polymer or the degree of polymerization.

37. (Previously Presented) A device in accordance with **claim 36** wherein said alkyl contains from about 4 to about 10 carbon atoms.

38. (Currently Amended) A device in accordance with **claim 37** 36 wherein alkyl is butyl, pentyl, hexyl, heptyl or octyl.

39. (Currently Amended) An electronic device containing a regioregular polythiophene



(I)

wherein R is alkyl, a siloxyalkyl of trimethylsiloxyalkyl or triethylsiloxyalkyl, m represents the number of R substituents; A is a divalent linkage; x, y and z represent, respectively, the number of R<sub>m</sub> substituted thienylenes, unsubstituted thienylenes, and divalent linkages A in the monomer segment subject to z being 0 or 1, and n represents the number of repeating monomer segments in the polymer or the degree of polymerization, said polythiophene having a number average molecular weight (M<sub>n</sub>) of from about 2,000 to about 100,000 and a weight average molecular weight (M<sub>w</sub>) of from about 4,000 to over 500,000, both M<sub>w</sub> and M<sub>n</sub> being measured by gel permeation chromatography using polystyrene standards.

40. (Currently Amended) A device in accordance with **claim 39** wherein said alkyl portion contains from about 4 to about 10 carbon atoms.

41. (Currently Amended) A device in accordance with **claim 40** wherein said alkyl is butyl, pentyl, hexyl, heptyl or octyl.

42. (New) A device in accordance with **claim 36**, wherein the polythiophene has a number average molecular wieght ( $M_n$ ) of from about 2,000 to about 100,000.

43. (New) A device in accordance with **claim 36**, wherein the polythiophene has a weight average molecular weight ( $M_w$ ) of from about 4,000 to over 500,000.

44. (New) A device in accordance with **claim 36**, wherein n is from about 5 to about 5,000.

45. (New) A device in accordance with **claim 36**, wherein the divalent linkage A is selected from the group consisting of arylene of about 6 to about 40 carbon atoms.

46. (New) A device in accordance with **claim 45**, wherein the divalent linkage A is selected from the group consisting of phenylene, biphenylene, phenanthrenylene, 9,10-dihydrophenonthrenylene, fluorenylene, methylene, polymethylene, dioxyalkylene, dioxyarylene, and oligoethylene oxide.

47. (New) A device in accordance with **claim 8**, wherein the polythiophene has a number average molecular wieght ( $M_n$ ) of from about 2,000 to about 100,000.

48. (New) A device in accordance with **claim 8**, wherein the polythiophene has a weight average molecular weight ( $M_w$ ) of from about 4,000 to over 500,000.

49. (New) A device in accordance with **claim 8**, wherein n is from about 5

to about 5,000.

50. (New) A device in accordance with **claim 8**, wherein the divalent linkage A is selected from the group consisting of arylene of about 6 to about 40 carbon atoms.

51. (New) A device in accordance with **claim 50**, wherein the divalent linkage A is selected from the group consisting of phenylene, biphenylene, phenanthrenylene, 9,10-dihydrophenonthrenylene, fluorenylene, methylene, polymethylene, dioxyalkylene, dioxyarylene, and oligoethylene oxide.

52. (New) A device in accordance with **claim 39**, wherein the divalent linkage A is selected from the group consisting of arylene of about 6 to about 40 carbon atoms.

53. (New) A device in accordance with **claim 52**, wherein the divalent linkage A is selected from the group consisting of phenylene, biphenylene, phenanthrenylene, 9,10-dihydrophenonthrenylene, fluorenylene, methylene, polymethylene, dioxyalkylene, dioxyarylene, and oligoethylene oxide.